PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	EOD IVIDORES				
100770-1 WO	FOR FURTHER ACTION See Form PCT/IPEA/416				
International application No.	International filing date (day/month/year)	Priority date (day/month/year)			
PCT/SE2003/001216	15.07.2003	17.07.2002			
International Patent Classification (IPC) or	national classification and IPC				
C07D 209/30, A61K 31/	405, A61P 11/00	•			
1					
Applicant					
AstraZeneca AB et al					
This report is the international prel Authority under Article 35 and tra	iminary examination report, established by thus instituted to the applicant according to Article	is International Preliminary Examining 36.			
2. This REPORT consists of a total of	f 4 sheets, including this cove				
This report is also accompanied by	ANNEXES, comprising:				
!		<u>.</u>			
	and to the International Bureau) a total of _	sheets, as follows:			
and/or sheets of the di and/or sheets of Administrative	Ulicalizing rechincations authorized by this Au	e been amended and are the basis of this report thority (see Rule 70.16 and Section 607 of the			
sheets which s	persede earlier sheets, but which this Author	ity considers contain an amendment that goes			
beyond the dis Supplemental 1	ausure in the international application as file	d, as indicated in item 4 of Box No. I and the			
b. (sent to the Internation	al Bureau only) a total of (indicate type and r	number of electronic carrier(s))			
<u> </u>	containing a sequence listing	and/or tables related thereto in computer			
Administrative Instruct	indicated in the Supplemental Box Relating to ions).	o Sequence Listing (see Section 802 of the			
4. This report contains indications rela	ting to the following items:				
Box No. I Basis of t					
Box No. II Priority	•				
Box No. III Non-estab	dishment of opinion with regard to novelty, it	nventive step and industrial applicability			
	nity of invention	,			
Box No. V Reasoned applicabil	statement under Article 35(2) with regard to ity; citations and explanations supporting suc	novelty, inventive step or industrial			
	cuments cited	a sajonicii			
Box No. VII Certain de	fects in the international application				
Box No. VIII Certain ob	servations on the international application				
Date of submission of the demand	Date of completion of	of this report			
	2 and or completion C	n.uns report			
30.01.2004	02.11.2004	1			
Name and mailing address of the IPEA/SE	Authorized officer				
atent- och registreringsverket					
30x 5055 3-102 42 STOCKHOLM .	Golmain Con	nt n /DG			
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Drm PCT/IPEA/409 (cover sheet) (January 2004)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001216

Box	k No. 1	(B	asis of the report
1.	With	regard t	to the language, this report is based on the international application in the language in which it was filed, unles icated under this item.
		This re which	eport is based on a translation from the original language into the following language, is the language of a translation furnished for the purposes of:
		· 🔲	international search (under Rules 12.3 and 23.1(b))
			publication of the international application (under Rule 12.4)
			international preliminary examination (under Rules 55.2 and/or 55.3)
2.	<i>J</i>		to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" the mexed to this report):
	\bowtie	the int	ernational application as originally filed/furnished
		the de	scription:
		pages	as originally filed/firmished
		pages*	
		pages*	received by this Authority on
		the cla	
		pages	
		pages*	as amended (together with any statement) under Article 19
		pages*	received by this Authority on
		pages*	received by this Authority on
		the drav	
		pages	
		pages*	as originally filed/furnished received by this Authority on
		pages*	received by this Authority on received by this Authority on
-		a seque	nce listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing.
3.			endments have resulted in the cancellation of:
			the description, pages
		\Box	the claims, Nos.
		一	the drawings, sheets/figs
	,	H	
		片	the sequence listing (specify):
			any table(s) related to the sequence listing (specify):
ı. [This rep made, si 70.2(c)).	ort has been established as if (some of) the amendments annexed to this report and listed below had not been not they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule
			the description, pages
		\Box	the claims, Nos the drawings, sheets/figs
		一	
		\vdash	the sequence listing (specify):
			any table(s) related to the sequence listing (specify):
			some or all of those sheets may be marked "superseded."
rm Pr	T/IDI	EA /400 C	Pay No D (Issuer 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



International application No.

PCT/SE2003/001216

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:			
the entire international application			
claims Nos. 9-10			
because:			
the said international application, or the said claims Nos. 9-10 relate to the following subject matter which does not require an international preliminary examination (specify):			
See PCT Rule 67.1.(iv).: Methods for treatment of the human or animal body by surgery or therapy, as well as diagnostic methods.			
the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):			
·			
the claims, or said claims Nos are so inadequately supported			
by the description that no meaningful opinion could be formed.			
no international search report has been established for said claims Nos.			
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:			
the written form has not been furnished			
does not comply with the standard			
the computer readable form has not been furnished			
does not comply with the standard			
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.			
See Supplemental Box for further details.			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/SE2003/001216

Bo	x No. V	Reasoned statement of citations and explana	ınder Article tions support	35(2) with regard to novelty, inventive step or industrial appling such statement	icability;
1.	Statement	-			
	Novel	ty (N)	Claims Claims	1-8, 11-14	YES NO
٠	Invent	ive step (IS)	Claims Claims	1-8. 11-14	YES NO
	Indust	rial applicability (IA)	Claims Claims	1-8, 11-14	YES NO

2. Citations and explanations (Rule 70.7)

Cited document: D1) EP 1170594 A2

The present invention relates to novel 3-sulfonyl-indol-1-acetic acid derivatives for treatment of diseases mediated by PGD2 such as asthma or rhinitis.

Document D1 disclose structurally very closely related compounds (see compound 10c, page 34 and example 9) with the same activity as the claimed compounds.

The difference between the claimed compounds and the compounds in document is that compound 10c of D1 is that there is a sulfonyl-group in position 3 and that the aromatic group R3 is not condensed.

The problem to be solved by the present invention in the light of document A is the provision of alternative derivates of 3-substituted indol-1-acetic acids for treatment of diseases mediated by PGD2.

The applicant has not shown that the structural differences render the claimed compounds' unexpected effects in comparison with the known compounds'.

It is considered obvious to a person skilled in the art to modify structurally similar compounds to obtain the claimed compounds and come to the conclusion that they will have the same activity.

Thus, claims 1-8 and 11-14 are considered to fulfil the Requirement of novelty, but not that of inventive step.